

ABSTRACT

In a semiconductor pressure sensor device comprising a
5 housing (1) having a cavity (3), a semiconductor sensor chip
(2) mounted within the cavity, leads (4) for conveying
pressure detection signals, and bonding wires (6)
electrically connecting the sensor chip and the leads, a
sensitive portion (2a) of sensor chip (2), leads (4) and
10 bonding wires (6) are covered with an electrically insulating
fluorochemical gel material which has a penetration of 30-60
according to JIS K2220, a Tg of up to -45°C, and a degree of
saturation swelling in gasoline at 23°C of up to 7% by
weight. The sensor device is improved in operation
15 reliability and durability life.